

## ABSTRACT

A Room Designated RF Alarm System for providing room name of fire incident at a plurality of remote locations by Voice-Playback Device.

Consisting of: a plurality of self-contained units, each identical and containing the following components

a Multi-Positional Encoder with positions on housing listed as room choices, e.g., GARAGE,

BASEMENT,

KITCHEN, 1<sup>st</sup> FL HALL, BED RM 1, and BED RM 2, Encoder outputs a unique 4-bit binary code at each position.

a 8-Bit Dip switch for system communications address, a Voice-Playback Device with multiple message capability and end of message marker, a RF Transmitter circuit which transmits a 12-bit signal

(8-bits communications address and 4-bit encoder data). A RF Receiver Circuit which validates

Communications Address and accepts 4-bits of data and a Fire Detection Circuit with high-frequency alarm output and bi-directional I/O.